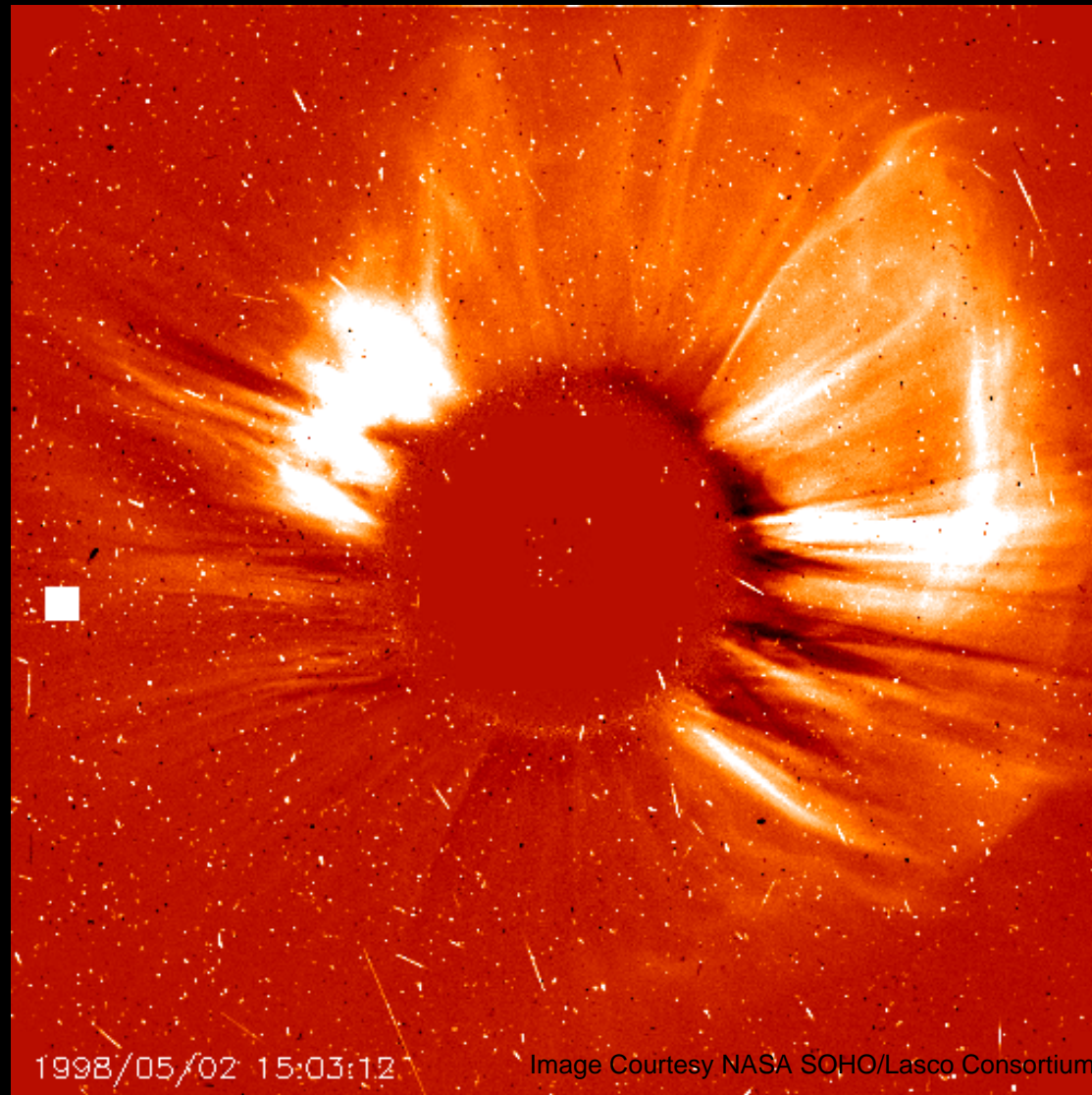


# Space Weather Event

May 2-4+, 1998

*May 2, 1998 X1 Flare & Coronal Mass Ejection*

# Coronal Mass Ejection 5/2/98



1998/05/02 15:03:12

Image Courtesy NASA SOHO/Lasco Consortium

*May 2, 1998 X1 Flare & Coronal Mass Ejection*

# Alerts & Warnings

:Data\_list: ALTS.txt  
:Issued: 1998 May 04 1130 UT  
# Prepared by the U.S. Dept. of Commerce, NOAA, Space Environment Center.  
# Please send comments and suggestions to sec@sec.noaa.gov  
# Updated hourly at 31 minutes past the hour.  
#  
#  
# Alerts and Warnings Issued in the last 24 Hours  
#-----  
:ALERTS:

Proton Event >1pfu @>=100MeV BEG 2 May 1998 14:05 UT  
Alert Condition ended at 3 May 1998 06:50 UT  
Comment: Particle counts stayed consistently below 1 particle at 0650UT

Proton Event >=10pfu @>=10MeV BEG 2 May 1998 14:20 UT  
This condition CONTINUED at 3 May 1998 14:22 UT  
Comment: None

Sudden Impulse observed at Boulder 3 May 1998 17:44 UT 10 nT  
Comment: None

2695MHz Radio Burst 750 F.U. 3 May 1998 21:17 UT Duration 21 Minutes  
Comment: Derived Background Level is \_\_ F.U.

Type IV Radio Emission 3 May 1998 21:17 UT  
Comment: None

The following condition CONTINUED at 3 May 1998 23:59 UT  
Electron Event >=1000pfu @>=2MeV BEG 2 May 1998 00:46 UT  
Comment: None

Magnetic K-Index of 4 Observed 3 May 1998 from 21:00 to 24:00 UT  
Comment: ADDITIONAL K'S OF 4 POSSIBLE THRU 1500 UT ON 04 MAY 98

The following condition CONTINUED at 4 May 1998 02:40 UT  
Magnetic A-Index >=30 Observed 2 May 1998 12:00 UT  
Comment: This is a continuation of alert issued on 02 May 98

Magnetic K-Index of 5 Observed 4 May 1998 from 00:00 to 03:00 UT  
Comment: ADDITIONAL K'S OF 5 POSSIBLE THRU 1500 UT ON 04 MAY 98

Sudden Impulse observed at Boulder 4 May 1998 03:01 UT 86 nT  
Comment: None

Magnetic A-Index >=50 Observed 4 May 1998 06:00 UT  
Comment: None

Magnetic K-Index of >= 7 Observed 4 May 1998 from 03:00 to 06:00 UT  
Comment: None

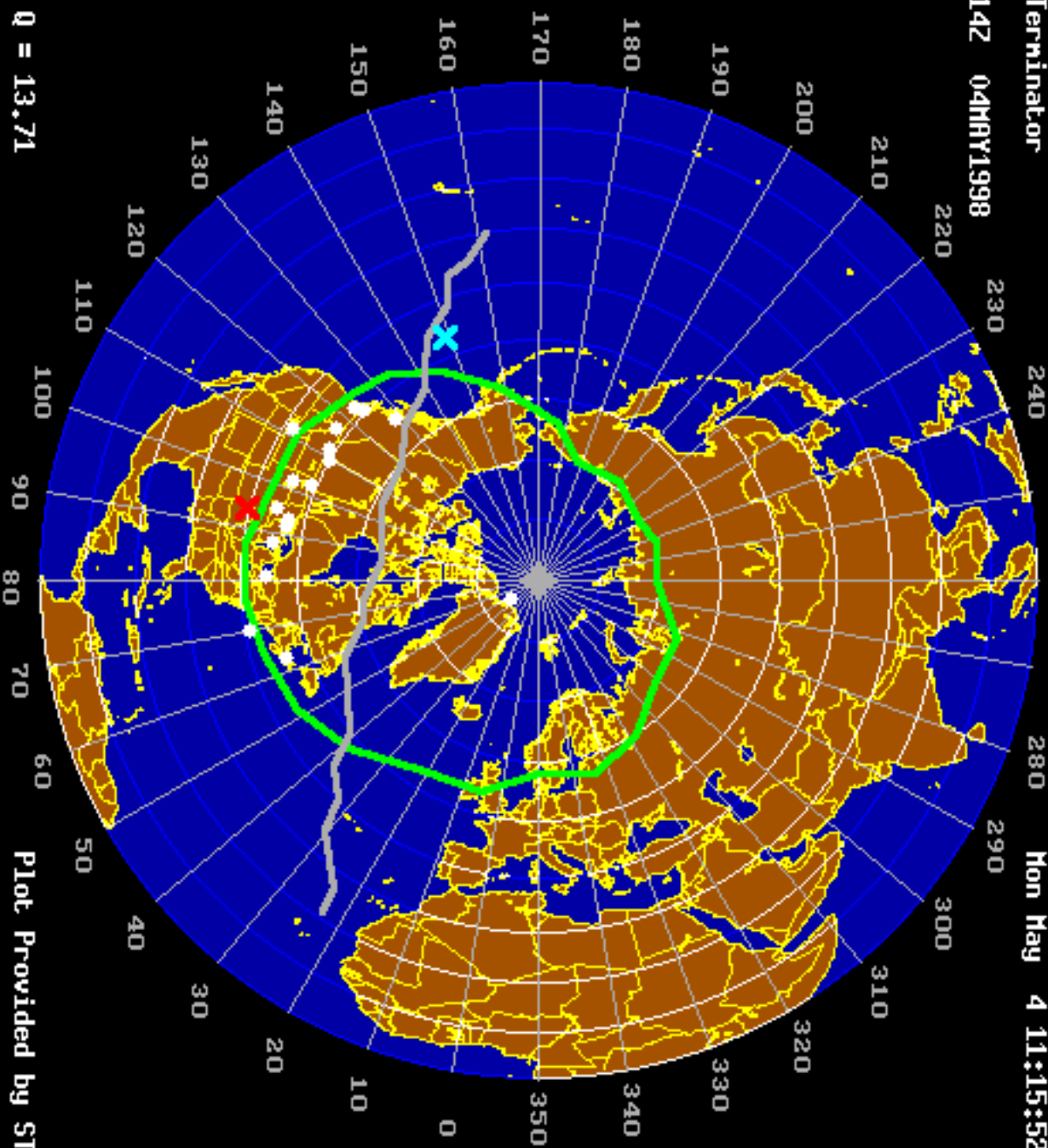
Magnetic K-Index of >= 7 Observed 4 May 1998 from 06:00 to 09:00 UT  
Comment: None

*May 2, 1998 X1 Flare & Coronal Mass Ejection*

DMSP Auroral Oval and  
110 km Terminator

Valid: 0614Z 04MAY1998

Ground Sightings Valid:  
Mon May 4 11:15:52 1998

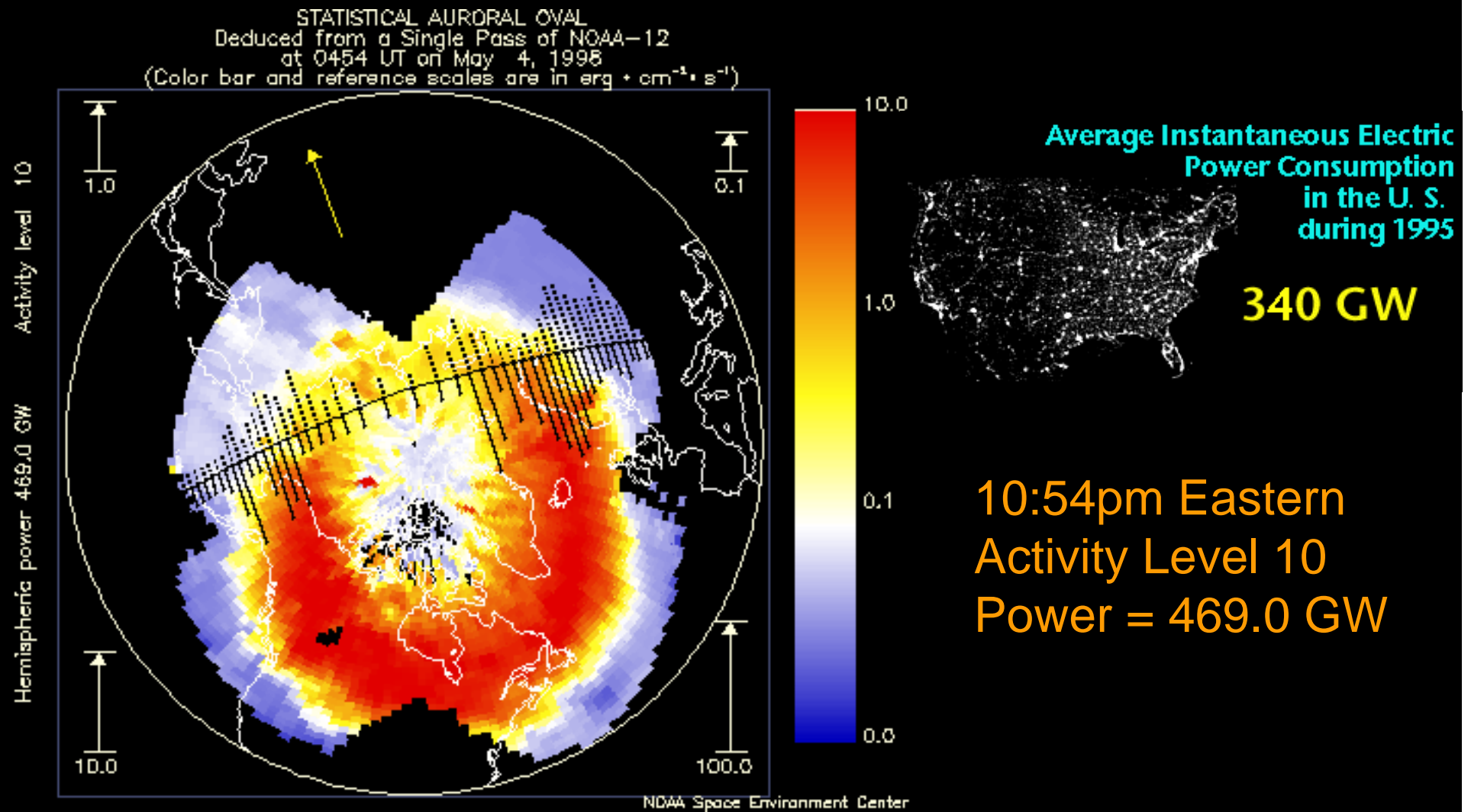


Effective Q = 13.71

Plot Provided by STD

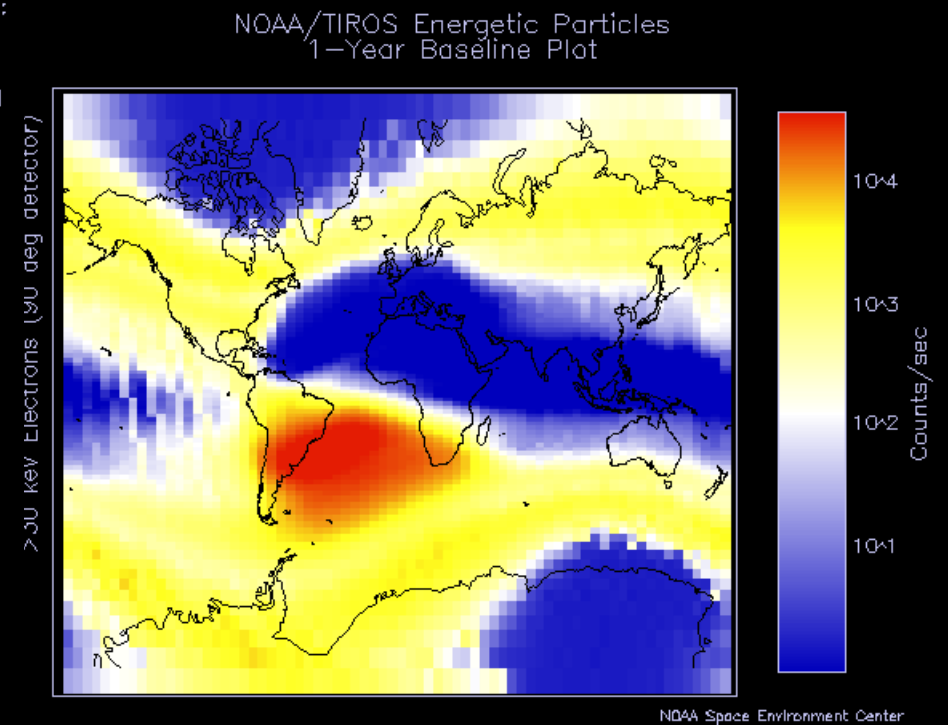
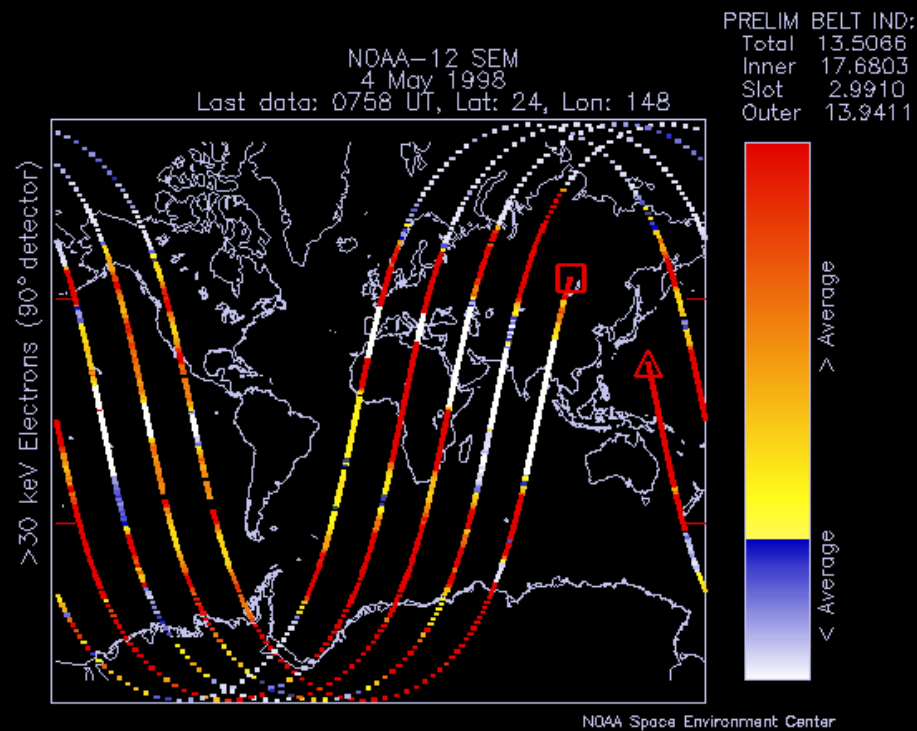
*May 2, 1998 X1 Flare & Coronal Mass Ejection*

# Auroral Power



*May 2, 1998 X1 Flare & Coronal Mass Ejection*

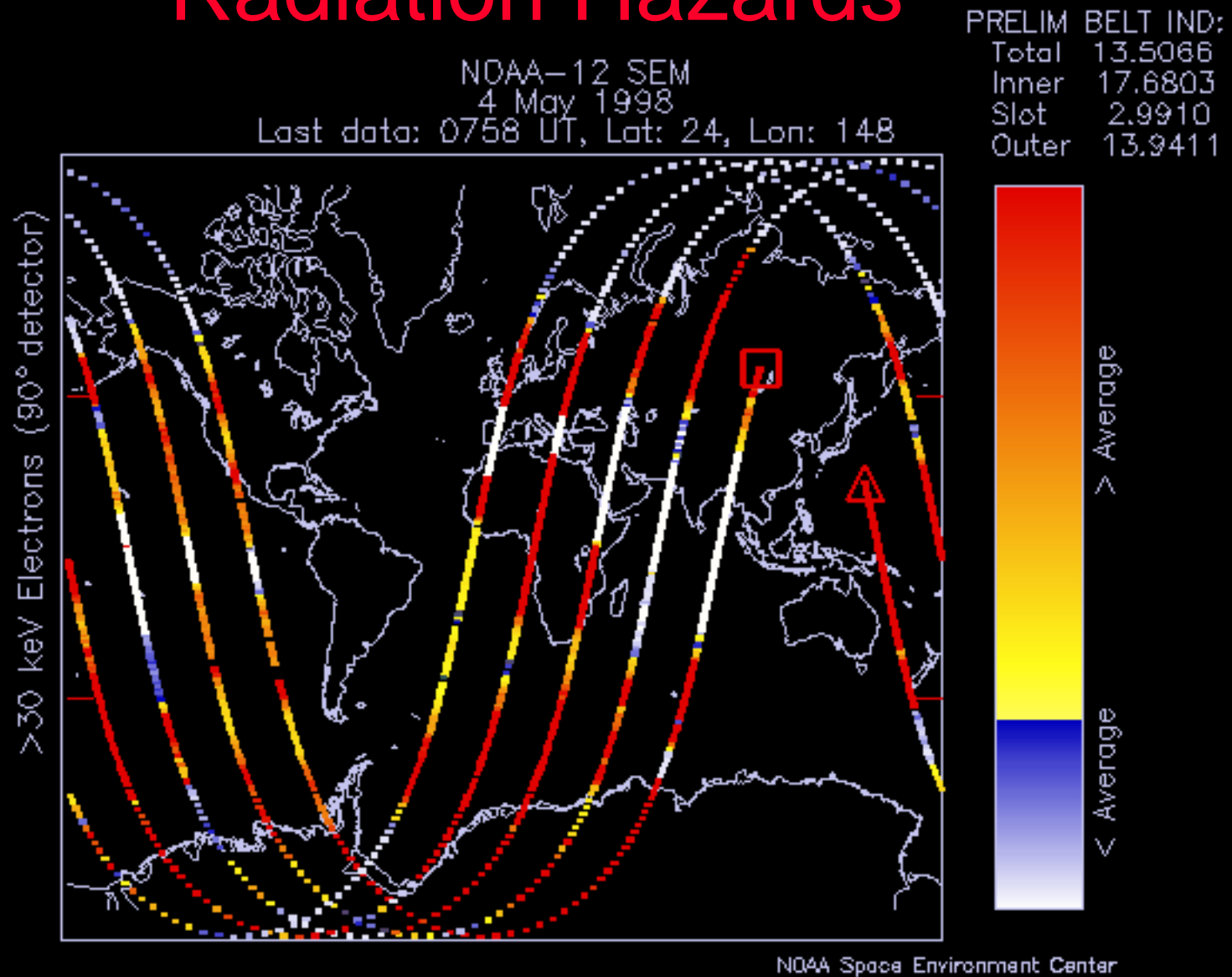
# Radiation Hazards



*May 2, 1998 X1 Flare & Coronal Mass Ejection*

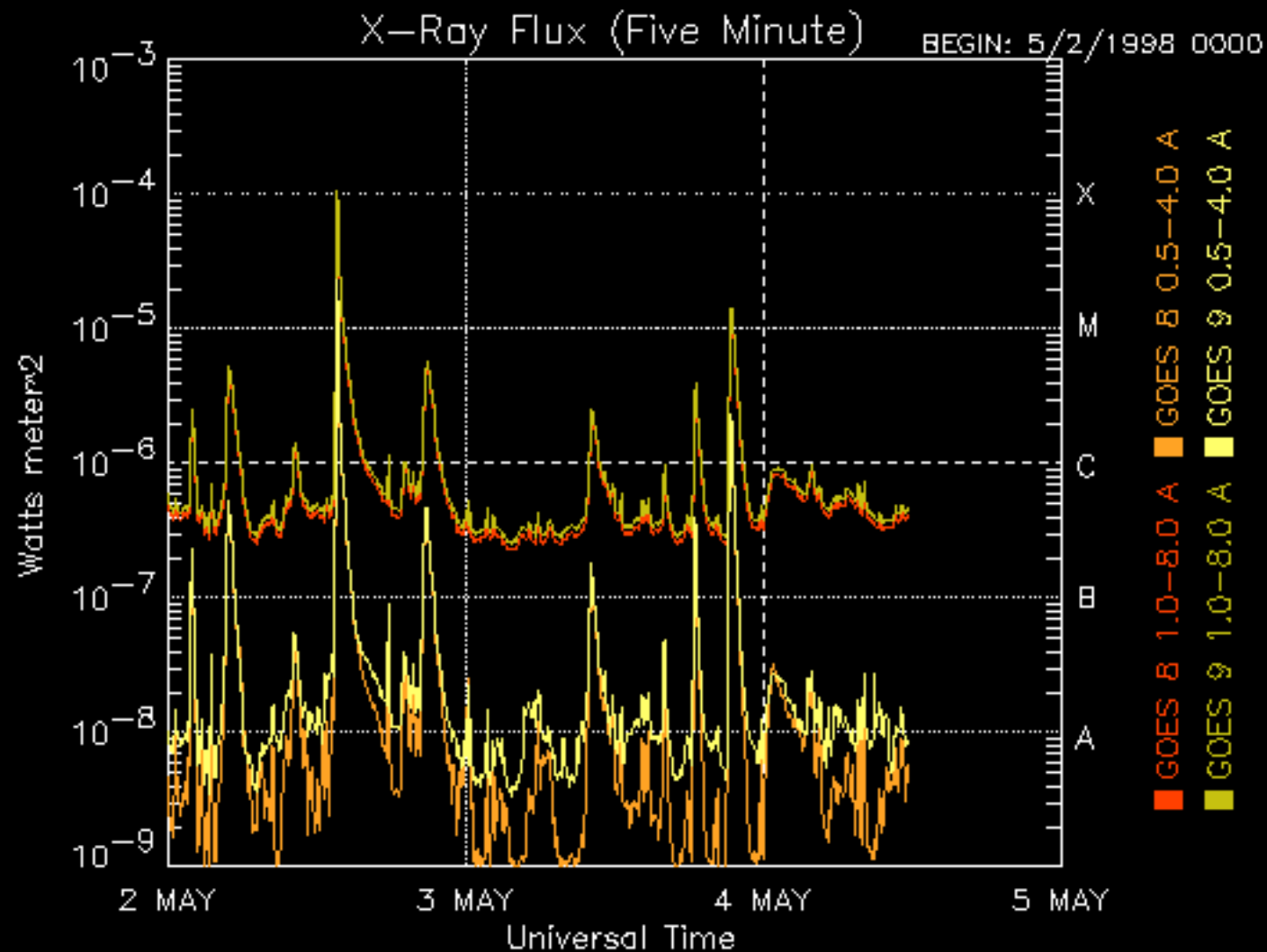


# Radiation Hazards



*May 2, 1998 X1 Flare & Coronal Mass Ejection*

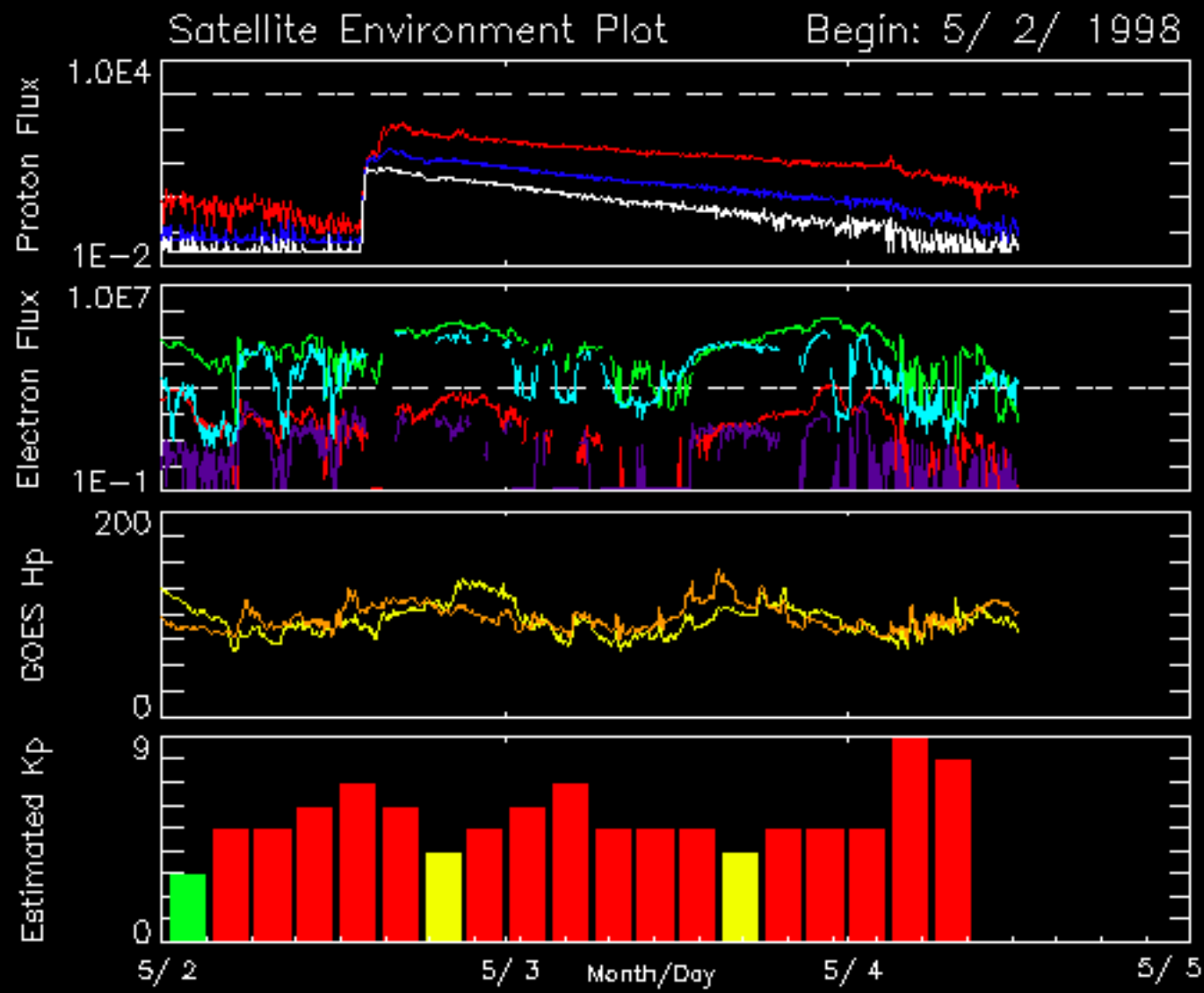
# Flare Activity



*May 2, 1998 X1 Flare & Coronal Mass Ejection*



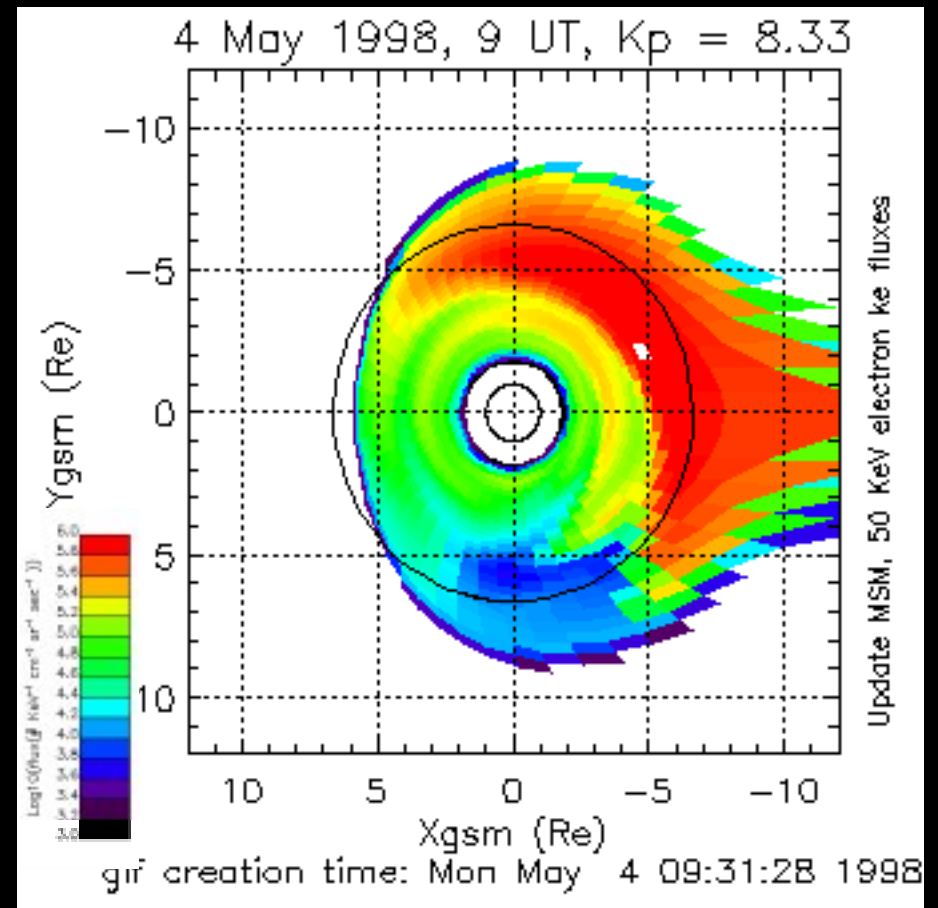
# The Satellite Environment



*May 2, 1998 X1 Flare & Coronal Mass Ejection*

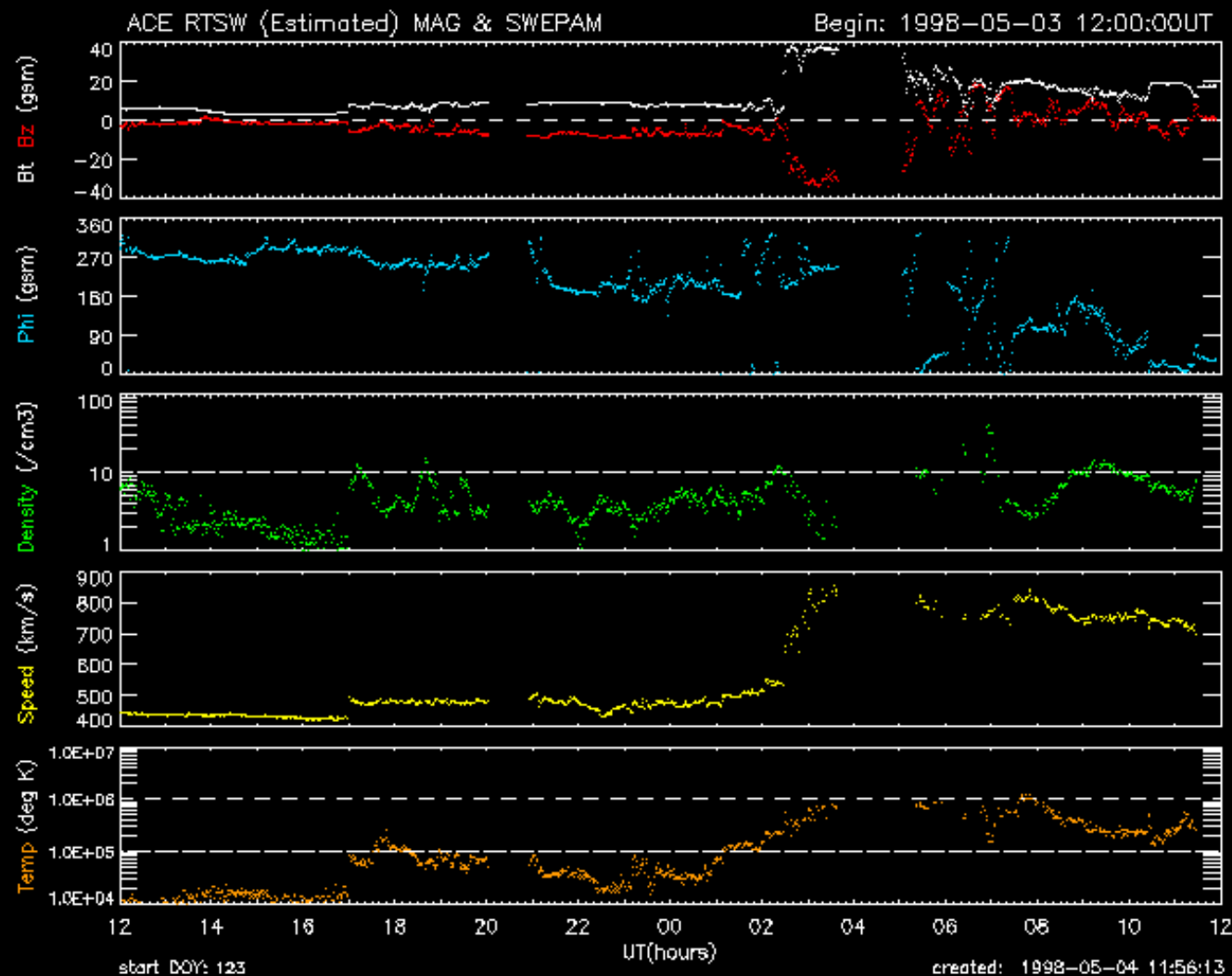
# The Earth's Magnetosphere

- Impact of storm compressed the Earth's magnetosphere inside of Geosynchronous orbit



*May 2, 1998 X1 Flare & Coronal Mass Ejection*

# Upstream Monitor Catches Storm

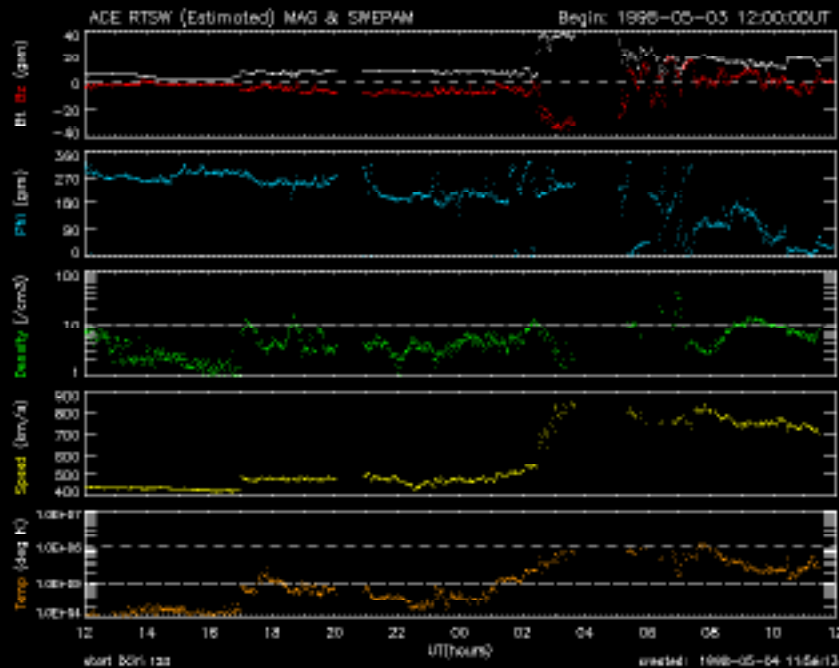


*May 2, 1998 X1 Flare & Coronal Mass Ejection*

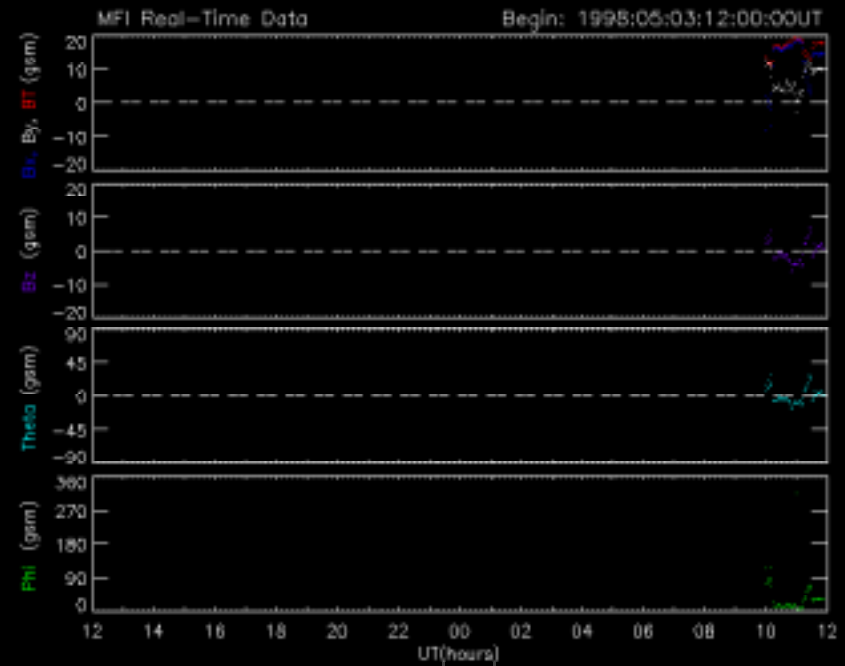
# Partial Coverage Misses the Storm

The importance of operational solar wind data

ACE



WIND



*May 2, 1998 X1 Flare & Coronal Mass Ejection*